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### **Abstract**

#### **Fleet Operating Experience**

ONSI Corporation of South Windsor, Connecticut produces the PC25™ fuel cell power plant, a 200 kilowatt on-site generator based on phosphoric acid electrolyte technology. The PC25 is the only fuel cell power plant designed for commercial service available in the market place on commercial terms. More than 72 units are operational in twelve countries, on three continents. The fleet of PC25s has accumulated more than 1,100,000 hours of service in hotels, hospitals, schools, office buildings, light industrial applications, and even a jail.

The fleet has proven that fuel cells can produce clean, quiet, efficient and high quality power and be very reliable. Independent emissions tests show air emissions below the standards of southern California, which have led to air permit exemptions in California and Massachusetts. The worldwide fleet availability exceeds 95%, with an impressive Mean Time Between Forced Outages (MTBFO) greater than 2200 hours. Three units have operated for more than thirty thousand (30,000) hours in the field, and twenty-six units have had continuous runs in excess of 6 months. The world record for continuous operation is in excess of 9000 hours.

#### **PC25 Model C**

ONSI has introduced its latest model of the PC25 design, the PC25 C. It is one-third smaller and one-third lighter than its predecessors, has 25% fewer parts and cost less than half as much to build. The design also offers features for improved serviceability and ease of installation. The PC25 C is offered in a standard design configuration; grid-connect, natural gas fueled, with options to extend its capabilities for grid-independent operation, high-grade heat, propane fuel and others.

ONSI is currently producing four PC25 Cs per month. Our current backlog is in excess of 12 months production. The U.S. DOE is offering a rebate to purchasers of commercial fuel cells manufactured in the United States, equal to \$1000 per kilowatt. This will result in a rebate of \$200,000 toward the purchase of a PC25. Contact ONSI or Diane Manilla at METC for assistance in applying for a rebate.